

CELL - A BASIC UNIT OF LIFE

WORKSHEET - 4

Class 9

1. Who coined the term protoplasm?
2. Why shape and size of cell is different?
3. Which cell organelle controls the various activities of cell?
4. Name the two nucleic acid present in the cell.
5. What are ATP molecules?
6. Why does RER look rough?
7. Which organelle is called the 'power house' of the cell".
8. What are chloroplasts?
9. What are chromosomes?
10. Can you name the two organelles we have studied that contain their own genetic material?

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SOLUTION

1. **Ans. Because all organisms are composed of cells and all functions in body are also done by cells.**
2. **Ans. Because cells perform different functions.**
3. **Ans. Nucleus.**
4. **Ans. DNA (De-ox ribose nucleic acid).
RNA (Ribose Nucleic acid).**
5. **Ans. ATP (Adenosine triphosphate) Molecules are the form of energy released by mitochondria, required for the various chemical activities needed for life.**
6. **Ans. RER has particles called ribosomes attached to its surface. So they look rough.**
7. **Ans. Mitochondria.**
8. **Ans. The plastids containing chlorophyll are known as chloroplasts.**
9. **Ans. The chromosomes are rod like structures which are visible only a the times of cell division.**
10. **Ans. a) Mitochondria, and b) Plastid.**

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